Contents Volume 82 (1993)

Vol. 82, Nos. 1+2 (July 15, 1993)

Flux decline analysis in ultrafiltration of kraft black liquor
C. Bhattacharjee and P.K. Bhattacharya (Kanpur, India) 1

Ceramic zeolite composite membranes. Preparation, characterization and gas permeation
M.-D. Jia, K.-V. Peinemann and R.-D. Behling (Geesthacht, Germany) 15

Pervaporation with latex membranes. I. Latex membrane preparation and characterization
Y. Wei and R.Y.M. Huang (Waterloo, Ont., Canada) 27

Application of the cuprammonium process (process for the production of regenerated cellulose membranes for hemodialysis) to sugar-cane bagasse
G.R. Filho and R.M.N.d. Assunção (Uberlândia-MG, Brazil) 43

CO_2 facilitated transport through functionalized cation-exchange membranes
D. Langevin, M. Pinoche, E. Sélégny, M. Métayer (Mont-Saint-Aignan, France) and R. Roux (Yaounde, Cameroun) 51

A mechanism for water flow in bipolar membranes
R. Simons (Kensington, N.S.W., Australia) 65

A novel configuration for packed bed membrane fermenters for maximizing ethanol productivity and concentration
A.E. Abasaeed and S.S.E.H. Elnashaie (Riyadh, Saudi Arabia) 75

Structure and properties of hydrocarbon ionomer membranes. 1. Poly(methyl methacrylate-co-methacrylic acid)
A.A. Gronowski, M. Jiang, H.L. Yeager (Calgary, Alb., Canada), G. Wu and A. Eisenberg (Montreal, Que., Canada) 83

Gas permeability of poly[1-(trimethylsilyl)-1-propyne] membranes modified by hexafluorobutyl methacrylate
G. Chen, H.J. Griesser and A.W.H. Mau (Clayton, Vic., Australia) 99

Novel methods in separation of olefin/paraffin mixtures by functional polymeric membranes
G.-H. Hsiue and J.-S. Yang (Hsinchu, Taiwan) 117

Osmotic distillation through porous hydrophobic membranes
J.I. Mengual, J.M. Ortiz de Zárate, L. Peña and A. Velázquez (Madrid, Spain) 129

Membrane potential and solute separation studies on zirconium phosphate membranes
K. Singh and A. Singh (Gorakhpur U.P., India) 141

Separation of ethylene and ethane over polyphenyleneoxides membranes: transient increase of selectivity
O.M. Ilinich and K.I. Zamaraev (Novosibirsk, Russia) 149

Pervaporation of aqueous acetic acid mixture through poly(acrylic acid-co-acrylonitrile) membranes
M. Yoshikawa, T. Shimidzu (Kyoto, Japan), Y. Maeda, K. Magara and H. Tsugaya (Himeji, Japan) 157

Equilibrium studies for the interaction of aqueous metal ions and polyacrylic acid by a batch ultrafiltration method
R.-S. Juang and J.-F. Liang (Taoyuan, Taiwan) 163

Removal of copper and zinc from aqueous sulfate solution with polyacrylic acid by a batch complexation–ultrafiltration process
R.-S. Juang and J.-F. Liang (Taoyuan, Taiwan) 175

Selective removal of H_2S from sour gases with microporous membranes. Part II. A liquid membrane of water-free tertiary amines
H. Kreulen, C.A. Smolders, G.F. Versteeg and W.P.M. Swaaij (Enschede, The Netherlands) 185

Letters to the Editor 199
Book Review 205
Meeting Announcement 207
Meetings Calendar 208

Vol. 82, No. 3 (July 29, 1993)

Theoretical analysis of pore size distribution effects on membrane transport
S. Mochizuki and A.L. Zydney (Newark, DE, USA) 211

Separation of gaseous olefin isomers using facilitated transport membranes
H.H. Funke, R.D. Noble and C.A. Koval (Boulder, CO, USA) 229

Stability of flat sheet supported liquid membranes in the transport of radionuclides from reprocessing concentrate solutions
J.F. Dozol, J. Casas (Saint Paul lez Durance, France) and A. Sastre (Barcelona, Spain) 237

Properties of composite membranes prepared from ion exchange membranes and conducting polymers. II. Electrical potential generation from cell composed of a cation exchange membrane–polypyrrole composite membrane and a ferric ion form cation exchange membrane
T. Sata (Ube City, Japan) 247

Thermal membrane potential across anion-exchange membranes in KCl and KIO_3 solutions and the transported entropy of ions
K. Hanaoka, R. Kiyono and M. Tasaka (Nagano, Japan) 255

A method for determination of gas diffusion and solubility coefficients in poly(vinyltrimethylsilane) using a personal computer
F. Vašák and Z. Brož (Prague, Czech Republic) 265

Urea transport through supported liquid membranes using synthetic carriers
W.F. Van Straaten-Nijenhuis, F.d. Jong, D.N. Reinhoudt (Enschede, The Netherlands), R.P. Thummel (Houston, TX, USA), T.W. Bell and J. Liu (Stony Brook, NY, USA) 277

Constant flowrate blocking laws and an example of their application to dead-end microfiltration of protein solutions
M. Hlavacek and F. Bouchet (Nancy, France) 285

Erratum 297
Meeting Announcement 299
Meetings Calendar 300
Author Index Volume 82 (1993) 303
Subject Index Volume 82 (1993) 304